

Water-Data Report CA-2005

**10270800 SOUTH FORK BISHOP CREEK BELOW SOUTH LAKE, NEAR BISHOP, CA**

Owens Lake Basin

LOCATION.--Lat 37°10'38", long 118°33'44" referenced to North American Datum of 1927, Inyo County, Hydrologic Unit 18090102, unsurveyed, in Inyo National Forest, on right bank, near weir on Weir Lake, 0.3 mi downstream from South Lake, and 15.7 mi southwest of Bishop.

DRAINAGE AREA.--13.4 mi<sup>2</sup>.

**WATER-DISCHARGE RECORDS**

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and sharp-crested weir. Elevation of gage is 9,580 ft above NGVD of 1929, from topographic map.

REMARKS.--Flow regulated by South Lake (station 10270700). Green Creek Conduit (station 10270680) diverts water into basin at South Lake. Water is used for power development downstream. See schematic diagram of Bishop Creek Basin.

COOPERATION.--Records collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 1394.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft<sup>3</sup>/s, July 31, 1995, gage height, 1.44 ft; minimum daily, 6.7 ft<sup>3</sup>/s, Apr. 4, 1994.

## 10270800 SOUTH FORK BISHOP CREEK BELOW SOUTH LAKE, NEAR BISHOP, CA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	28	19	26	23	23	27	26	33	21	61	72	26
2	26	19	27	20	23	27	25	32	21	62	72	26
3	26	19	26	20	23	27	25	32	21	62	64	26
4	24	19	26	20	23	27	30	28	20	63	56	26
5	24	19	26	20	23	27	35	25	20	63	51	26
6	24	19	26	20	23	27	35	24	28	60	49	26
7	24	19	23	20	23	27	34	24	38	60	49	26
8	24	19	21	22	23	27	34	24	42	65	44	26
9	23	19	21	23	23	27	34	23	44	70	43	26
10	23	19	21	20	23	27	34	22	44	70	44	25
11	23	19	21	20	23	27	37	22	43	65	44	25
12	23	19	21	20	23	27	38	22	44	62	46	26
13	23	19	21	20	23	27	38	22	44	58	49	27
14	22	19	21	20	23	27	37	23	45	49	45	26
15	21	19	21	21	23	27	35	23	48	44	45	26
16	21	19	21	20	23	26	34	23	50	42	49	26
17	20	19	21	21	22	26	34	21	50	43	49	26
18	20	19	21	21	23	26	34	22	50	55	43	26
19	20	19	21	21	22	26	34	18	50	77	38	26
20	20	19	21	21	22	26	34	18	53	96	40	26
21	20	19	21	23	22	26	42	19	59	113	34	26
22	20	19	21	24	22	26	44	19	59	116	25	32
23	20	19	21	23	22	26	44	20	59	118	25	32
24	20	19	21	23	22	26	44	19	59	116	27	32
25	22	19	21	23	22	26	38	20	60	114	27	32
26	23	19	20	23	22	26	36	20	60	114	27	32
27	21	19	21	23	22	26	34	21	60	102	27	32
28	20	19	21	23	25	26	32	21	60	79	27	32
29	19	25	21	23	---	26	32	21	60	74	27	32
30	19	26	21	23	---	26	34	20	61	76	27	32
31	19	---	23	23	---	26	---	20	---	74	27	---
<b>Total</b>	682	583	685	667	636	821	1,047	701	1,373	2,323	1,292	833
<b>Mean</b>	22.0	19.4	22.1	21.5	22.7	26.5	34.9	22.6	45.8	74.9	41.7	27.8
<b>Max</b>	28	26	27	24	25	27	44	33	61	118	72	32
<b>Min</b>	19	19	20	20	22	26	25	18	20	42	25	25
<b>Ac-ft</b>	1,350	1,160	1,360	1,320	1,260	1,630	2,080	1,390	2,720	4,610	2,560	1,650

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	24.6	23.9	25.0	23.9	27.6	27.0	26.5	21.4	19.4	32.6	36.7	31.1
<b>Max</b>	41.6	41.1	44.1	40.0	54.2	61.6	57.4	36.7	45.8	74.9	87.7	47.6
<b>(WY)</b>	(1998)	(1998)	(2002)	(2002)	(1993)	(1997)	(1996)	(1996)	(2005)	(2005)	(1995)	(1998)
<b>Min</b>	10.8	10.6	9.98	7.59	7.45	7.75	7.74	10.6	7.70	9.45	14.0	17.0
<b>(WY)</b>	(1991)	(1991)	(1991)	(1991)	(1991)	(1991)	(1992)	(1994)	(1991)	(1991)	(2002)	(2001)

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SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1991 - 2005	
Annual total	7,595		11,643			
Annual mean	20.8		31.9		26.6	
Highest annual mean					38.7	1995
Lowest annual mean					12.4	1991
Highest daily mean	42	Sep 13	118	Jul 23	139	Jul 31, 1995
Lowest daily mean	14	Jul 10	18	May 19	6.7	Apr 4, 1994
Annual seven-day minimum	14	Jul 8	19	Oct 29	6.9	Apr 9, 1991
Maximum peak flow			121	Jul 23	142	Jul 31, 1995
Maximum peak stage			1.33	Jul 23	1.44	Jul 31, 1995
Annual runoff (ac-ft)	15,060		23,090		19,310	
10 percent exceeds	31		59		48	
50 percent exceeds	19		26		22	
90 percent exceeds	15		20		12	

